SBI3U Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Artificial Selection Assignment**

Selective breeding & genetic engineering are the two methods used for selecting (or introducing) traits that humans desire in (or to) an organism. They can be used to produce “better” livestock, domesticated animals (pets), agricultural crops, other types of plants, etc.

You will research a specific example of a selectively bred or genetically engineered plant or animal, and prepare a **short presentation** (5 minute maximum) and **slideshow** about the organism that includes:

\_\_\_ a description of the technology used to breed/engineer the specific plant/animal

\_\_\_ a description of what characteristic(s) was (were) selected for in the organism

\_\_\_ 2 social benefits of this organism

\_\_\_ 2 concerns about the future of this organism

\_\_\_ an image of the organism

You must use at least 2 different sources of information, which you should cite using in-text citations, in APA format. Please see <https://owl.english.purdue.edu/owl/resource/560/01/> for proper formatting. Include links to any images you use (in the “Notes” for the slide or in a list at the end) as well as your References in slides at the end of the visual aid. If you have any .

Important dates:

Monday, April 24th: Research period.

Please try to choose your topic by the end of this class.

Wednesday, May 3rd: Please send me your slideshow (or link to your slideshow) by

11:59 p.m.

**Thursday & Friday, May 4th & 5th: Presentations in class**

EVALUATION SCHEME:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Level 1 (50%)**  **2.5 marks** | **Level 2 (60%)**  **3 marks** | **Level 3 (70%)**  **3.5 marks** | **Level 4 (80-100%)**  **4-5 marks** |
| -Description of technology & characteristics of organism are clear and accurate.  /5 | Transfers knowledge to unfamiliar contexts with limited effectiveness. | Transfers knowledge to unfamiliar contexts with some effectiveness. | Transfers knowledge to unfamiliar contexts with considerable effectiveness. | Transfers knowledge to unfamiliar contexts with a high degree of effectiveness. |
| -Social benefits & concerns are clearly identified and relevant.  /5 | Transfers knowledge to unfamiliar contexts with limited effectiveness. | Transfers knowledge to unfamiliar contexts with some effectiveness. | Transfers knowledge to unfamiliar contexts with considerable effectiveness. | Transfers knowledge to unfamiliar contexts with a high degree of effectiveness. |

**APPLICATION: /10 ( %)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Level 1 (50%)**  **2.5 marks** | **Level 2 (60%)**  **3 marks** | **Level 3 (70%)**  **3.5 marks** | **Level 4 (80-100%)**  **4-5 marks** |
| Communicates for different audiences & purposes:  -level of language appropriate for SBI3U  -organized & prepared  -good eye contact, volume, pace  /5 | Language is not simplified for Grade 11 Biology students (taken directly from the source).  Speaker is audible, but reads most of the presentation and is generally unprepared. | Language is somewhat simplified for Grade 11 Biology students.  Speaker is audible, but reads some of their presentation and is generally unprepared. | Language is appropriate for Grade 11 Biology students.  Speaker is audible, prepared and knows their presentation, | Language is completely appropriate for Grade 11 Biology students & new scientific words are defined/explained  Speaker is audible, prepared, organized, and knows their presentation. |
| Effective use of visual aid:  -no more than 6 slides  -minimal text in slides  -student uses images in slides to explain concepts  /5 | Visual aid is used with limited effectiveness. | Visual aid is used with some effectiveness. | Visual aid is used with considerable effectiveness. | Visual aid is used very effectively to enhance the presentation. |
| Citations/References:  -In-text citations are correctly used.  -Image source(s) is(are) indicated.  -Reference list is in APA format.  /2 | Reference list & in-text citations not in APA format or with many errors. | Reference list & in-text citations in APA format with some errors. | Reference list & in-text citations in APA format with few errors. | Reference list & in-text citations in APA format with no errors. |

**COMMUNICATION: /12 ( %)**